

DEPM IVS PUMPS | FAQ

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Q1 How do I select DEPM IVS pump in ADEPT?

A1 Select your pump by flow and head in the Automatic mode, once you enter the information, look for **DEPM IVS** models in the selection grid. Note this first release of DEPM IVS pumps includes 6" and 7.5" diameter vertical inline pumps from 15-60hp (11-45kW). More models and higher powers will be released in the near future.

In Manual mode, the models include:

- DEPM IVS 4300 0306B (8015B) or constant speed 3X3X6B (80-150B),
- DEPM IVS 4300 0406C (1015C) or constant speed 4X4X6C (100-150C),
- DEPM IVS 4300 0506 (1215) or constant speed 5X5X6 (125-150),
- DEPM IVS 4300 2507 (6519) or constant speed 2.5X2.5X7.5 (65-190),
- DEPM IVS 4300 0307 (8019) or constant speed 3X3X7.5 (80-190),
- DEPM IVS 4300 0507 (1219) or constant speed 5X5X7.5 (125-190)

Q2 Which voltages are available for the DEPM IVS motors?

A2 They are available in 3 phase, 380-480V, 575V from 15hp to 60hp (11kW to 45kW). For 200-230V up to 40hp/30kW only.

Q3 Are the DEPM IVS pumps available for outdoor use?

A3 Yes. The controls portion of the DEPM IVS motors are rated NEMA Type 4X or IP66. Units shipped from SAA are rated UL 778 for outdoor operation. They will also include the touchscreen cover and overhead weathershield.

Q4 Is there a lead time adder for the DEPM IVS pumps?

A4 DEPM IVS pumps are the same lead time as DE IVS (induction motor) pumps. Please refer to your latest respective shipment indicator for specific lead times on the DEPM IVS pumps.

Q5 Can the DEPM IVS motors and controls operate at higher ambient temperatures than 45°C (113°F). Or de-rate?

A5 Yes, the DEPM IVS motors and controls can be operated up to 50°C (122°F). Refer to the I&O manuals (Section 2.2.4) for details on ambient temperature de-rating.

Q6 Are higher power DEPM IVS motors available?

A6 DEPM IVS motors are not currently available for higher than 60hp (45kW). Investment in additional motor sizes will not be made until the dedicated pump hydraulics are developed first. The models / envelopes featured in ADEPT are the only models available.

Q7 If I have an existing DE IVS (induction motor) pump unit in the field, can I retrofit it with DEPM IVS motor?

A7 No, the DEPMH motors use custom shafts and motor faces, designed specifically for operation on DEPM IVS pumps.

Q8 Are the integrated fused disconnect switches available for the DEPM IVS?

A8 Yes, because the DEPM IVS uses the same IVS controls, integrated fused disconnect switches are available as an option.

Q9 How does the DEPMH motor use the same IVS controls as induction motors? Why isn't it "integrated" like the small DEPMs?

A9 The DEPMs were developed as a physically integrated design. Functionally however, it still has a frequency converter and a motor. The DEPM IVS provides a visually integrated appearance of a motor and drive controller.

Q10 What is the purpose or function of the shrouds around the motor and controls?

A10 The shrouds are strictly decorative in function. They do not provide any enclosure rating protection. They are only to provide a visually integrated appearance to the pumping unit. Because the new DEPMH motors are significantly smaller than induction motors, and the IVS controls remaining the same, the pumps would look aesthetically displeasing with mismatched proportions. The shrouds also allow Armstrong to potentially use other DEPM motors or drive controls in the future.

Q11 Do the shrouds restrict air flow in cooling the motor and controls?

A11 Armstrong has ensured there are sufficient clearances in the design of the decorative shrouds to prevent overheating of the motor and controls. The design has passed our extensive in-house heat rise tests.

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Q12 Since the drive is still an IVS, can I get the DEPM IVS pumps with wall mounted / standalone drives?

A12 The best value is the DEPM IVS pump and designed to be an integrated pumping assembly. In the rare instances where the value is not recognized, the selected pump can be provided with a constant speed motor and an IVS standalone drive (without the DEPC). In ADEPT, select **Conventional - Variable Speed** under the **Select A Product** section. The DEPMH motor cannot be provided for conventional variable speed as there is custom programming in the DEPC required for its operation.

Q13 Can I add bearing current protection to the DEPM IVS pumps?

A13 Yes, but note the only option available for DEPM IVS pumps is **AEGIS shaft grounding ring** only. No other bearing current protection options can be used with the DEPMH motors. i.e. an insulated NDE bearing cannot be provided as the motor design does not allow other bearing types.

Q14 Can I get epoxy coating on the pumps?

A14 No, the 3 new VIL pump models feature e-coated wetted parts. E-coating provides an effective method of preventing seizing of the impeller and preventing the decline in hydraulic performance and efficiency. The application of epoxy coating would require the e-coating to be removed by sand blasting the surfaces and thus no longer becomes economically feasible to produce.

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